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©Radio Club of Tacoma W7DK

SEA-PAC 2019 impressions

SEA-PAC 2019 is now behind us! If you've never attended SEA-PAC, you are truly missing out on what they bill right on their own [website](#) as "The Northwest's Largest Ham Convention". It is also billed as the ARRL Northwestern Division Convention, and every year a number of top officers of the ARRL attend to keep the Northwest amateur radio community apprised of what's going on in the League.

The location is always at the Seaside Convention Center, at 415 First Avenue, in Seaside, OR – a wonderful ocean-view town on the scenic Oregon coast, only about an hour outside of Portland. Of course, there is a ham-fest component to the event as you might expect – not as large as the Mike & Key event at the Puyallup Fair Grounds but it's no slouch of an event, complete with commercial exhibits, workshops, banquet with Key-note Speaker, numerous door prizes, on-site VE testing for new licensees or upgrades, a YL Luncheon, a DX-centric luncheon, ARRL Officer guests, and lots more.

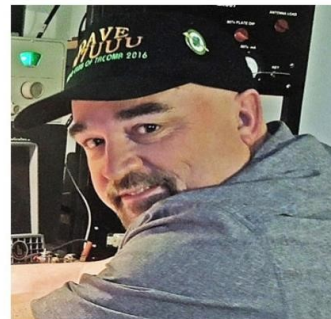
This year's honored VIP guests included none other than ARRL President Rick Roderick, K5UR; ARRL CEO, Howard Michel, KB2ITX; ARRL Marketing Chief, Bob Inderbitzen, NQ1R; ARRL Northwestern Division Director, Mike Ritz, W7VO; ARRL Northwestern Division Vice-Director, Mark Tharp, KB7HDX; ARRL Section Manager, Alaska, Ray Hollenbeck, KL7IL; ARRL Section Manager, Idaho, Dan Marler, K7REX; ARRL Section Manager, Montana, George Forsyth, AA7GS; ARRL Section Manager, Oregon, David Kidd, KA7OZO; ARRL Section manager, Eastern Washington, Jack Tiley, AD7FO; and lastly, ARRL Section Manager, Western Washington, Monte Simpson, AF7PQ.

Wow! Quite the turnout of ARRL brass, eh?!

SEA-PAC is truly a wonderful ham radio event for us on the West Coast – a beautiful little town, nestled on the coast, tons of tourist activities and fun things to do, plenty of shops, restaurants and bars to occupy your off times. There are even lots of things to do for the kids and grandkids alike.

Over the years for me, one of the very best aspects of the SEA-PAC con-

THE PRESIDENT'S CORNER



DAVE W7UUU

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FIELD DAY
THIS WEEKEND

vention has been the seminars – and they have TONS of them! All are free, with no need to register or reserve. You simply show up. But I warn you! Most are very popular and fill up fast that so it's always best to scan the [schedule](#) ahead of time, map out your calendar, and be there early to get a good seat!

A sampling of this year's SEA-PAC schedule had such offerings as "Flex Radio: Benefits to Rag-Chewers, DX-ers, and testers alike"; "How to build a Repeater"; "Getting started with HF Operating"; "Effectively Welcoming the New Ham"; "Why CW Matters in an FT8 World"; "Operating Portable and Having Fun".... And many more!

This year, for the third time, I was asked to present my "Why Upgrade to General or Extra?" for the Saturday, June 1, 2019 slot in Seaside Room C and just like the years before, it was a "sellout crowd" so to speak, with every seat taken. There were lots of great questions from the audience and it's always a real fun thing for me to do.

My only negative impressions related to the venue itself. It's under major reconstruction right now and as a result, the floor plan was pretty awkward, with lots of construction diversions to get from one area to another. This resulted in a flea market showroom area that was seriously reduced over previous years. I felt badly for the folks at the tables on the floor that it was so difficult for buyers to circulate. And on top of all of the floor confusion and constriction, there was no air conditioning in the entire building! Even in my presentation in Seaside C, the room temperature was well over 80 degrees.

I strongly encourage you to visit SeaPac in 2020 (June 5-7 at the same location – Seaside Convention Center). Just remember to book your hotel well in advance! There are several hotels very close to the convention center (we always stay at the Holiday Inn Express which is dog friendly!) but they fill up fast. I'm 100% sure that by next year, the construction will be completed, the AC up to snuff, and the spacing for the ham fest will be back to normal.

It was also very much my pleasure to meet up with all the club members I saw there – I was surprised to see so many from RCT show up. And of course to all the many others that came and went from other regions outside the Pacific Northwest.

See you next year, Seaside Oregon June 5-7, 2020

Dave
W7UUU

Gear Review – WolfWave 100—Advanced Audio Processor

P. J. Hicks



I took advantage of the recent RCT group buy from MFJ and purchased a MFJ618 Dual Channel Speech Intelligibility Enhancer; \$155.00 group cost. It worked well and as advertised but it didn't quite do what I had in mind. I found the many knobs (10) and buttons (5) distracting and slightly annoying. I used it a week or two before retiring it from the operating bench. In searching around for something more suitable I found the WolfWave 100 (*See below*). It uses a somewhat different approach but the underlying methods are very similar and the graphical display of what is happening reinforces what your ears are hearing and simplifies tuning. I have used it several months now and it has earned a permanent place in the shack.

Features

Fully adjustable audio band-pass filtering (*b/w 50 Hz to 5 kHz*) [VIDEO](#)

State-of-the-art adaptive noise reduction (*100 levels+*) [VIDEO](#)

Adaptive tone eliminator; get rid of annoying carriers - but leave CW or SSB

Age-related hearing loss correction using hearing-loss curves for males or females, selectable [VIDEO](#)

One-touch bypass function

Memories for your settings

Bright, clear, spectrum display; *see what's happening in your audio pass-band*

Audio test generator including two-tone test mode [VIDEO](#)

Experimental CW regenerator; *enjoy noise-free CW QSOs* [VIDEO](#)

On-screen help

Tuning/Overload LED; *dual color indicator makes tuning easy*

User updatable firmware by USB port; (*Windows app, see below*)

Speaker output: 1.1 Watts @ 10% THD [**speaker output must not be grounded**]. Full power achieved when using 12 Volt external supply

Separate speaker and headphone output

Latency 60 mS max.

Low current drain; 60 mA quiescent; *battery-friendly!*

Small size; *105W x 80D x 27H (mm), 4.1"W x 3.15"D x 1.1"H (in)*

Lightweight; *140 grams (4.9 oz.)*

WOLFWAVE is supplied with 1 x USB lead (power) and 1 x Audio lead (3.5mm jack plugs).

Sold by SOTA BEAMS \$250.00

<https://www.sotabeams.co.uk/wolfwave-advanced-audio-processor/>

and DX Engineering \$275.00

<https://www.dxengineering.com/parts/sbm-wolfwave>

Late breaking news. SOTABEAMS has released new software, version 1.1.2, 10 June 2019, that adds CW Decoding as a selectable mode. It's very easy to switch modes back and forth, dial in the best 'set point' using the graphical display and it's keyed to your sidetone preference. As with all decoder software the accuracy is highly dependent on a clean signal well tuned in. The decoder works as well as any others I've tried.

HERE'S YOUR CHANCE

There are only five more issues of the Logger's Bark newsletter in the pipeline before I publish my last newsletter.

I originally volunteered for one year but extended to two years.

My time as editor has been fun, enlightening, and rewarding but is rapidly coming to a conclusion and to anticipate leaving and breaking in a new editor I am giving this notice and offering one of you the great opportunity to step up and become the Logger's BARK Editor.

Contact me, P. J. Hicks, editor, hickspj467@comcast.net, or one of the RCT officers and become the next Randolph Hearst.

Well deserved and much needed maintenance to our Silent Key Memorial Display

Dave W7UUU and Nick K7MO teamed up to update the "Silent Key" board in the main room of the clubhouse. Dave ordered the 39 required plaques from Big John's Trophies at 56th & South Tacoma Way, with the very last to be submitted for Nick's father, WZ7M (formerly WA7RWK) who passed away while the plaque order was being produced. We hope to keep the board updated on a more regular basis in the future.



The three "Silent Key" boards seen above hang in the main room of the clubhouse and present a fine tribute to all those members who shared in the Radio Club of Tacoma's history and contributed to the club's success.

SeaPac 2019— Largest Northwestern Ham Fare is Great Success

SEA-PAC 2019 is now behind us. And as usual it was a crowded and vibrant event. Dave W7UUU was asked

to do a presentation in Seaside Room C again this year, an updated version of "Why Upgrade to General or Extra?". And as before, it was well attended and received.

Despite the Seaside Convention Center being very much under construction, with a much reduced Ham Fest room during the transition to the new space, and, most of all, the complete lack of air conditioning - it still came off very well.

Many members of The Radio Club of Tacoma W7DK were on site for various activities, including Adam W2NCC who launched one of his balloons on the beach late in the evening for some 160 meter action.

Main Exhibit and Flea Market area.



Dave W7UUU presenting for the 3rd year his popular talk "Why Upgrade to General or Extra?"

Radio Club of Tacoma members enjoy the beach at Seaside, OR



Radio Club of Tacoma PMT Sales

June, 2019

New list items in RED

| ITEM | Price |
|---|----------|
| 2. Tube Tester Meter | \$5.00 |
| 3. Meter Tube Tester Jewel | \$5.00 |
| 4. Heath Clock GS-1000 | \$50.00 |
| 18. Yaesu HF PWR AMP FT-2100B | \$300.00 |
| 25. Kenwood XTAL Filter YG-455C-1 | \$50.00 |
| 41. Suitcase with Tektronix scope camera | \$50.00 |
| 84. Comet Triplexer CFX-514 | \$40.00 |
| 94. TEN TEK HF XCVR UNI 6+ | \$400.00 |
| 94A. TEN TEK Power Supply OMNI PS | P/O # 94 |
| 101. Timewave TNC Terminal DSP-9+ | \$25.00 |
| 110. Kenwood HF XCVR TS-850S SN: 70100203 | \$300.00 |
| 112. SWAN SWR METER WM-2000 | \$75.00 |
| 114. Astron Power Supply RS-12A | \$25.00 |
| 115. Rohn tower six sections/ rotor top section | \$450.00 |
| 116. Hammarlund HF RX HQ-105TR | \$100.00 |
| 117. Hallicrafters HF RX SX-28 PARTS RADIO SN: H-170803 | \$25.00 |
| 118. Comet mobile ant UHF-4 | \$75.00 |
| 119. Elecraft HF XCVR K1 2 bands (being checked out) | TBD |

If you are interested in examining or purchasing one of these items or simply want more information please contact Red Cranefield WB7EC , wb7ec@w7dk.org, or any PMT committee person or club officer. All items are available on Saturday mornings at the clubhouse except Field Day Saturday, June 22, 2019. New item donations are gratefully accepted

LAST MINUTE INVITATION TO VOLUNTEER, SIGNUP, ATTEND AND SUPPORT THE RADIO CLUB OF TACOMA'S 2019 FIELD DAY

Friday, Saturday and Sunday, June 21/23

At the Western State Hospital Grounds

See the MAY 2019 Logger's Bark for detailed information and location directions

‘EXCESS TO MY NEEDS’

Beginning in the June 2019 issue of the Logger's BARK we are going to try having a Classified Page so that RCT members can pass along those "excess to my needs" or "Wanted" pieces of Ham Radio gear.

To that end it is necessary to set some operating rules.

The classified listings are open to all club members in good standing.

The listing will be printed in one issue of the Bark. Listings must be resubmitted to relist.

Members are allowed 2 item listings per Bark issue.

A listing shall consist of one item and its directly related accessory parts only.

Item listings must contain the following information;

Item Description with brand and model or 'homebrew' as appropriate and any modifications.

Included accessories such as manuals, cables, options, or modification(s) documentation.

Total price of item and shipping terms if appropriate.

Name, callsign, and current contact information; email and/or phone, etc.

Member may submit one clear photo of the actual item(s) being sold. No catalog or web photos.

Listings are limited to 350 text characters including spaces. *Photos may be edited or cropped for publication.*

Email your listing(s) and photo(s) to hickspj467@comcast.net or give them to me **in digital form** at the clubhouse at a Saturday Openhouse. Due to the item listing processing time the deadline for submissions is **FIRM**; by the 15th of the month in which you want the listing to appear.

Example Listing.



MFJ 618 Dual Channel Speech Intelligibility Enhancer, bought in club purchase and modified as in Feb. 2019 BARK article. Used only a week. Switching to SOTA Wolfwave 100 Asking \$145.00. P J Hicks, N7PH, will deliver to clubhouse. hickspj467@comcast.net

“Excess to my Needs...”

FOR SALE - Kenwood TS-440s w/internal AT, matching power supply. In excellent condition. This rig has been used for voice and digital communications. Unit has also been modified for MARS/CAP operation. Asking \$400. Can deliver to the club house for testing and/or pickup. Contact John Sherrill N7TES at 253-777-8735



FOR SALE—Allied AX-190 Solid State receiver in excellent condition. Asking \$75.00. Can deliver to the club house for testing and/or pickup. Contact John Sherrill N7TES at 253-777-8735



FOR SALE: New Tower, never installed, brand unknown, 6 sections each 10 ft. long. Top section has rotor mounting plate and bearing mount. \$450 complete. Offers considered.

Contact Red WB7EC, wb7ec@w7dk.org or any PMT member for information or to purchase.



Your add could appear here.

See the May Logger's Bark, pg. 8 for details

New Club House Storage Shed nears Completion...

By P. J. Hicks

Last month we published drawings, a proposed schedule, and a list of needed materials we hoped the club members would donate. Well many members stepped up and piled on big time. The initial board approval for \$2000 to construct a shed to house the 'one time use per year' equipment and the landscaping tools and mower was augmented by one member's sizable cash donation and many members surplus materials and newly purchased supplies NOT to mention the time and efforts of many who performed the work. I would like to thank all of you who pitched in and helped out. Thanks. It looks like final construction will be completed on time and when Field Day equipment is brought home it can go directly into its new space.

The pictures below depict a roughly chronological sequence of the construction. While many helped, Mike Drobrough W7MKE made it a full time job in hours and work donated to ramrod the construction, make sure materials were rounded up and on site, and suffer the slings and arrows of the sidewalk superintendents. Very well done Mike, very well done.



RCT Volunteer Construction builds a new storage shed...



Raising the walls



Almost done...

Joseph N. Winter, longtime RCT member, goes SK.



Joseph N. Winter Sr. WZ7M passed away on May 16, 2019 at the age of 99. Joe was born April 15, 1920 in Baltimore, Maryland to Nicholas T. and Barbara (Nigl) Winter. Joe began working in airplane manufacturing at Glenn L. Martin Company in Baltimore and eventually joined the air corps and served the U.S. at the tail end of [WWII](#). His brother Barney moved Joe and their parents to the Puget Sound. While working at Atlas Foundry he met Adeline Bouffieux. They married in 1948. He worked at the City of Tacoma starting in the Permits Counter and retired as a Professional Civil Engineer in the Water Division in 1979. His hobbies included photography, amateur radio, golf, and genealogy. Joe was a founding member of the Tacoma Photographic Society and St. Charles Borromeo Church. Additionally, he was a member of the Radio Club of Tacoma (WZ7M), the Western Washington DX Club, a lifetime member of the Tacoma Elks #174, and the Knights of Columbus. He is predeceased by the love of his life, Adeline (Addie) B. Winter in 2008 with whom he shared 60 years of married life. Joe will be remembered as a friendly, outgoing, smart, thoughtful, caring and faithful man and missed by all his friends.



Radio Club of Tacoma
Board of Directors Meeting Agenda
May 1, 2019

Meeting called to order at 1858 PDT by President Dave W7UUU.

Officers and Directors Present

| | |
|----------------|-----------------------|
| President | Dave Ellison W7UUU |
| Vice President | Mike Mikuchonis W7XTZ |
| Secretary | Mike Finnie W7MWF |
| Treasurer | Steve Dightman AF7YD |
| Board | Bruce Hanson WE7P |
| Board | Paul Matney W7PFU |
| Board | Adam Barbera W2NCC |
| Board | Red Cranefield WB7EC |
| Board | Phil Pia K7PIA |

Quorum A quorum was present. There were 17 names on the sign-in sheet, a copy of which is filed with these minutes.

Silent Key or Illness? Harry Adams W7HSA RCT # 2275 and 2009 Doc Spike Award recipient joined the ranks of the Silent Keys on April 7. His memorial service was held on April 13.

It was also noted that local non-member ham Howard Doody W7YCP who was known to many members had become a silent key. Dave W7UUU also mentioned that another local non-member ham Russ WA6TLK is in the terminal stage of cancer at Madigan.

Approval of Minutes of April 3, 2019 Board Meeting was accomplished by voice vote.

Secretary's Report Mike W7MWF reported receipt of the usual Correspondence: Memberships, Utilities, Subscriptions, and Bank Statements.

Treasurer's Report Steve AF7YD reported the bank balances and that he had several bills yet to pay and deposits to tender.

Committee / Reports

Membership George K7GRS reported that paid membership stands at 259.

Training There will be no Tech License training in May. The next scheduled class will be held June 8/9.
General License Training has been cancelled.
VE testing will be held May 14.

Info Tech and Website Randy reported that all systems are running A-OK.

HF Operations Phil K7PIA reported that all stations are operating properly. The 7th Area QSO Party (7QP) is scheduled for Saturday, May 4 from 6 am until midnight (local time)

Repeater Ops There were no adverse reports regarding the repeater operability.

Facilities Mgmt Adam W2NCC advised work continues on the upstairs subpanel rehab. Mike W7MWF advised there were 2 volunteers to perform lawn-mowing. He will confirm their willingness as necessary.

Property Mgmt Red WB7EC reported April sales receipts of \$434 and raffle of \$60. Red submitted a disposition authorization request for surplus property, including the Rohn 25 foot tower. Approval was granted for disposition under club policy. A copy of the list is filed with these minutes.

Museum Randy WB4SPB noted that the museum was currently restoring a Heathkit Mohawk receiver and an Elmac transmitter. He also indicated that the museum was interested in taking custody of many of the Heathkit items on the PMT list.

Weds Workshop This month's workshop on May 22nd will be an opportunity to help get **ready for Field Day. Plans, strategies, equipment, antennas, and logging will be some of the topics covered.**

General Meeting May 4, 2019. Dave W7UUU will delight the audience with a showing of more archival movie footage from yesteryears. Also, Adam W2NCC will give a brief overview of Field Day plans.

Unfinished Business

Updates on proposed construction of storage building: Mike W7MKE reported that the plans and material list have been completed and he will be soliciting donations of materials and labor at the next General Meeting. Discussion ensued regarding the need for site preparation and gravel placement. It was moved and seconded to authorize the expense not to exceed \$2000 for materials for construction and site prep. Motion carried.

Steve AF7YD had no updates on credit card processing options.

New Business

Stephen AD7AB led a discussion regarding new guidelines for State Fair exhibitors. At present, there is no set plan for the size, location, and viability of our booth for this season. The Board voiced its continuing support of Stephen's efforts. Dave W7UUU will start publicizing the need for volunteers beginning at the next General Meeting. A copy of the letter recently received by Stephen from the State Fair management is filed with these minutes.

Dave W7UUU led the discussion regarding SK Memorial Board eligibility: After discussion, it was de-

terminated and agreed to by voice vote that our policy will be to include SKs who were full voting members in the club and who held a valid amateur radio license during their lifetime. Provisional and Associate members are not included as eligible for the memorial boards.

Activity Reports and Discussion Topics

Field Day upcoming June 21-23

SeaPac will be Ma7 31-June 2

Kitsap County ARC Hamfest will be held Saturday, October 12, 2019

Announcements

Paul W7PFU will begin circulating sign-up sheets for pot-luck items for the Field Day dinner.

Dave W7UUU reminded us that he and Anne N7ANN will be holding an open house July 13 at their new residence on the peninsula.

Adjournment was at 2001 PDT.

**Radio Club of Tacoma
General Meeting Agenda
May 4, 2019**

Meeting called to order at 1330 PDT by President Dave W7UUU at **Tacoma Eagles Aerie #3, 4810 South Tacoma Way.**

Officers and Directors Present

| | |
|-----------|----------------------|
| President | Dave Ellison W7UUU |
| Secretary | Mike Finnie W7MWF |
| Treasurer | Steve Dightman AF7YD |
| Board | Red Cranefield WB7EC |
| Board | Phil Pia K7PIA |
| Board | Bruce Hanson WE7P |
| Board | Adam Barbera W2NCC |
| Board | Paul Matney W7PFU |

Pledge of Allegiance was led by Dave W7UUU.

Welcome and Self-Introductions

Guests No guests were present.

New Calls No new calls were reported.

Self-introductions were completed. There were 36 names on the attendance roster, a copy of which is filed with these minutes.

Health and Welfare

Silent Keys and Illness Harry Adams W7HSA RCT # 2275 and 2009 Doc Spike Award recipient joined the ranks of the Silent Keys on April 7. His memorial service was held on April 13.

Also, W7YCP Howard Doody became a SK on April 29. Although not a RCT member, he was known by many of the local hams.

Dave reported on the failing health of another non-member local ham Russ Cable WA6TLK.

Secretary's Report Mike W7MWF reported receipt of the usual stuff: periodicals, utility bills, bank statements, membership renewals.

Treasurer's Report Steve AF7YD reported that the bills and deposits are up to date and the condition of the treasury is sound.

President's Report Dave circulated a letter from the Washington State Fair management outlining changes in the hobby hall booth provisions. He called for people to be ready to start volunteering to take shifts at the fair when called upon by Steve AD7AB. Dave also acknowledged appreciation for the more generous donations into the coffee/snack fund collection jar.

Committee / Activity Reports

Membership George K7GRS reported current membership stands at 262, of which 30 are Life Members and 19 are Promotional Members.

Training Tech License Training will be June 8/9.
The General License Training for April-June was cancelled due to limited registration.

VE Report John AC7WW gave the VE report, including the recent testing session held at JBLM. A copy of Johns report is filed with these minutes. The next VE Session will be held May 14.

HF Operations Phil K7PIA reported all station equipment functioning normally. The 7th Area QSO Party (7QP) is in progress until midnight.

Repeater Ops There were no reports of any problems with the repeaters.

IT Report On behalf of Randy WB4SPB, Mike W7MWF reported that the clubs IT infrastructure is functioning properly. The IRLP feature for the repeater is currently shutdown to resolve a programming issue.

Museum On behalf of the Museum staff, Mike W7MWF gave the report presented at the May BOD meeting – the current restoration projects underway include a Heathkit Mohawk receiver and an Elmac transmitter.

Facilities Mgmt Adam W2NCC reported works in progress include: electric panel upgrade, repair of squirrel holes, installation of new coax to garage, and inspection/repair of wheelchair ramp.

Prop Mgmt Red WB7EC reported April sales receipts were \$434 and raffle proceeds were \$60.

Logger's Bark PJ N7PH encouraged members to submit contributions for publication. He also advised that at the end of the year he will retire as editor. Dave W7UUU called on members to consider volunteering to serve as the Bark editor beginning in January.

4th Weds Activity Night This month's workshop on May 22nd will be an opportunity to help get ready for Field Day. Plans, strategies, equipment, antennas, and logging will be some of the topics covered.

New Business

Mike W7MKE presented construction plans for new utility/storage building at club property. He gave an overview of plans and solicited material donations construction crew volunteers. Several questions from members were addressed. Gravel is scheduled for delivery to the site on May 17. Copies of the site plan and bill of materials are filed with these minutes.

Unfinished Business and Announcements

- 7QP (7th Area QSO Party) ongoing until midnight tonight (Sat, May 4)
 - SeaPac May 31-June 2
 - Mark your calendars June 21-23 ARRL Field Day 2019
 - George K7GRS recently donated several very nice bookcases to the Club for Library use.
 - Mike W7MWF reported that the new groundskeeper for the club property will be Dick N7RVH.
- Thanks Dick!

-Paul W7PFU advised that there are sign-up sheets at the clubhouse for Field Day Pot Luck items.

Program The presentation at the May General Meeting was a short video introducing the new digital mode FT4. It is a fast mode developed especially for contest operations. Adam W2NCC also provided updates regarding Field Day plans.

Door Prize A T-shirt and sticker were won by John KE7AH.

Raffle Prize An SWR meter was won by Kerry KI7LTV.

Adjournment at 1431 PDT.

Intentionally Blank

THE CLUB LINEUP

CLUB OFFICERS

President: Dave Ellison, W7UUU - w7uuu@w7dk.org

Vice Pres: Mike Mikuchonis, W7XTZ - w7xtz@w7dk.org

Secretary: Mike Finnie, W7MWF - w7mwf@w7dk.org

Treasurer: Steve Dightman, AF7YD - af7yd@w7dk.org

5 BOARD MEMBERS

Bruce Hanson, WE7P - we7p@w7dk.org

Paul Matney, W7PFU - w7pfu@w7dk.org

Adam Barbera, W2NCC - w2ncc@w7dk.org

Red Cranefield, WB7EC - wb7ec@w7dk.org

Phil Pia, K7PIA - k7pia@w7dk.org

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LOGGER'S BARK STAFF

Editor: P. J. Hicks, N7PH - hickspj467@comcast.net

Contributors: The members of the Radio Club of Tacoma

ARRL Liaison: Joe Lester, K7ZG - 73radio@gmail.com

Send articles to: hickspj467@comcast.net, or Radio Club of Tacoma, PO Box 11188, Tacoma, WA 98111

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Permission is granted to use any or all portions of articles published in The Loggers Bark if a credit line is included in the article. Please seek permission from the original writer also.

MEMBERSHIP INFO: FULL (licensed) and ASSOCIATE (non licensed) membership is \$35 per calendar year or \$30 for Licensed Seniors (65 and over). Licensed family members at same address pay \$20 each for the first two and are free for the third, fourth, and so on. Full-time students, licensed or non licensed, up to age 25 are \$20 per year. Note: fees are applicable for the calendar year: Jan to Dec. Lifetime membership is 20 times the yearly fee you are eligible for. Lifetime memberships are calculated based on the FULL and ASSOCIATE rates.

www.w7dk.org [LINK] - For the latest and most current information on events and activities, visit the Radio Club of Tacoma Website.

RADIO CLUB REPEATERS

Central Tacoma: 147.280 + PL=103.5

Crawford Mountain 147.380 + PL=103.5 (E of Olympia @ 1500 ft ASL)

Central Tacoma: 440.625 + PL=103.5

North Tacoma: 145.21 – PL=141.3